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January 23, 2003

Marlene H. Dortch, Esq.
Secretary
Federal Communications Commission
445 Twelfth Street, S.W.
Washington, D.C. 20554

Re: WT Docket No. 00-32, 4940-4990 MHz

Dear Ms. Dortch:

At the meeting held on January 10, 2003 with Commission staff, Microwave Radio Corporation (MRC) was asked whether it would be feasible for a microwave radio to carry a video signal in the 4940-4950 MHz band and still meet the out-of-band emission limits at the 4950 MHz band edge. This letter provides an answer.

MRC plans to employ a COFDM digital video signal with a pedestal that occupies 5.7 MHz at the 1 dB bandwidth points. A digital filter will be used to attenuate the sideband energy greater than 40 dB at approximately 800 kHz from the pedestal edge. The amount of energy at the band edge and beyond will depend on the linearity and saturation of the amplifier. The radio will be designed such that it satisfies the 43 + 10 log (output power in watts) limit for all spurious energy and RF terms not contained inside the digital pedestal.

MRC is also considering single-carrier radios that would occupy a smaller bandwidth.

Sincerely,

Jeffrey Krauss